INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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	Authorized Officer			Name and mailing address			
	09 January 2006			7 December 2005			
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	Box No. VIII Certain observations on the international application						
	Box No. VII Certain defects in the international application						
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This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
NANYANG TECHNOLOGICAL UNIVERSITY et al							
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Applicant's or agent's file reference

If item 4 applies, some or all of those sheets may be marked "superseded."	*
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This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	·þ
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furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):	7.
international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
publication of the international application (under Rule 12.4(a))	
international search (under Rules 12.3(a) and 23.1 (b))	
translation furnished for the purposes of:	
A translation of the international application into	
The international application in the language in which it was filed	
With regard to the language, this report is based on:	ι

Basis of the report

Box No. I

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			1. Statement

Citations and explanations (Rule 70.7)

Novelty and Inventive Step

Box No. V

EP 1 006 585 discloses a three colour detection pixel sensor comprising a top doped p+ layer contacted by an N-well beneath, and P-substrate beneath that in turn. Electrical gate contacts on the top surface contact both sides of the p+ region and the N-well and P- substrate in turn to allow current to flow when each layer detects a certain of the p+ region and the N-well and P- substrate in turn to allow current to flow when each layer detects a certain of the p+ region and the N-well and P- substrate in turn to allow current to flow when each layer contact both sides.

US 5 965 875 discloses a three colour sensor with three stacked n-p-n- levels with a possible fourth doped p region below again. Electrical contacts are placed in contact with the regions to determine current flowing due to impinging light.

SU 1689768 discloses a three pn junction colorimetric sensor one above another which use photocurrents induced by a particular wavelength in each level.

JP 07-038136 discloses a photodetective element composed of pn junctions different to each other in wavelength selectivity to induce a current proportional to the light detected.

None of the cited art discloses two junctions with a connecting material between the junctions. Therefore claims 1-41 can be said to be novel and to have an inventive step.

The claims are directed to manufacturing and therefore can be said to Industrially applicable.